

12

EUROPEAN PATENT APPLICATION

21 Application number: **86305100.9**

51 Int. Cl.⁴: **C 10 J 3/54**

22 Date of filing: **01.07.86**

30 Priority: **05.07.85 US 751927**

43 Date of publication of application:
07.01.87 Bulletin 87/2

88 Date of deferred publication of search report: **03.06.87**

84 Designated Contracting States:
DE FR GB NL

71 Applicant: **Exxon Research and Engineering Company**
P.O.Box 390 180 Park Avenue
Florham Park New Jersey 07932(US)

72 Inventor: **Lang, Robert Joseph**
103 Crestway
Baytown Texas 77520(US)

72 Inventor: **Vaughn, Stephen Neil**
15230 Silverman
Webster Texas 77598(US)

74 Representative: **Somers, Harold Arnold**
ESSO Engineering (Europe) Ltd. Patents & Licences Apex
Tower High Street
New Malden Surrey KT3 4DJ(GB)

54 **Process for gasifying solid carbonaceous materials in the presence of a carbon/alkali metal catalyst.**

57 A process for gasifying a non-gaseous solid carbonaceous material in the presence of a carbon/alkali metal catalyst wherein a portion of the gasification is accomplished in the presence of steam and another portion of the gasification is accomplished in the presence of hydrogen and in the substantial absence of carbon dioxide and steam. The gasification is accomplished at an elevated temperature and pressure.

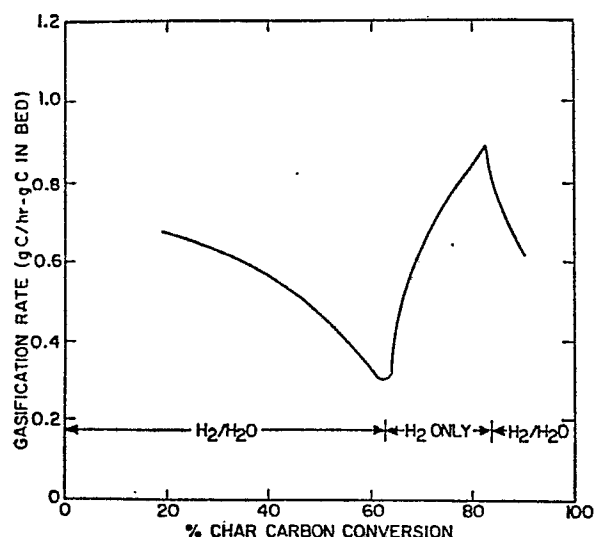


FIGURE 6



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
X	US-A-2 840 462 (E. GORIN) * Column 3, line 54 - column 6, line 53; columns 11-14; claims 1-5 *	1,2,7-9	C 10 J 3/54
A	--- US-A-3 929 431 (K.K. KOH) * Column 5, lines 6-26; column 8, line 29 - column 12, line 23 *	1,6-9	
A	--- DE-A-2 908 748 (KRAFTWERK UNION AG) * Page 3, ligne 27 - page 6, ligne 10 *	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
			C 10 J
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 13-03-1987	Examiner WENDLING J.P.
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

